

EAST Search History

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|---|------------------|---------|------------------|
| L1 | 432 | (vibration vibrational) and drilling and (lobed lobe) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/09/17 15:01 |
| L2 | 144 | 1 and geometry | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/09/17 15:00 |
| L3 | 82 | ((vibration vibrational) same (lobed lobe)) and drilling | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/09/17 15:11 |
| L4 | 2 | ("1,892,217").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2006/09/17 15:11 |
| L5 | 201 | (175/55).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2006/09/17 15:21 |
| L6 | 493 | (175/56).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2006/09/17 15:21 |
| L7 | 546 | (175/296).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2006/09/17 15:21 |
| L8 | 1052 | (175/320).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2006/09/17 15:21 |
| L9 | 163 | (175/38).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2006/09/17 15:21 |

EAST Search History

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| L10 | 69 | (L5 L6 L7 L8 L9) and (@pd>"20051223") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/09/17 15:21 |
| S1 | 5 | (US-3223187-\$ or US-3316986-\$ or US-3971450-\$ or US-4408670-\$ or US-6742609-\$).did. | US-PGPUB; USPAT | OR | ON | 2005/06/25 12:21 |
| S2 | 34 | ("2937008" "2990894" "3291230" "3365202" "3540742" "3656565" "3659662" "3762724" "3807513").PN. OR ("3971450").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/06/25 12:29 |
| S3 | 521 | ((vibration vibrational) near energy) and drilling | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/25 12:44 |
| S4 | 89 | S3 and "175"/\$.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/25 12:45 |
| S5 | 0 | ("2005/0121231").URPN. | USPAT | OR | ON | 2005/06/25 12:31 |
| S6 | 1017 | (vibration vibrational) and drilling and piezoelectric | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/25 15:33 |
| S7 | 78 | S6 and "175"/\$.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/25 15:33 |
| S8 | 18 | "797157" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/25 14:01 |
| S9 | 42 | (vibration vibrational) and drilling and finned | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/09/17 14:59 |
| S10 | 4 | S9 and "175"/\$.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/25 15:35 |

EAST Search History

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| S11 | 1587 | (vibration vibrational) and drilling and (fin spiral) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/25 15:35 |
| S12 | 304 | S11 and "175"/\$.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/25 15:35 |
| S13 | 101 | S12 and offset | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/06/25 17:14 |
| S14 | 200 | (175/55).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/25 17:14 |
| S15 | 481 | (175/56).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/25 17:14 |
| S16 | 520 | (175/296).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/25 17:14 |
| S17 | 998 | (175/320).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/25 17:14 |
| S18 | 154 | (175/38).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/06/25 17:14 |
| S19 | 2 | ("20020121378").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/12/26 16:52 |
| S20 | 201 | (175/55).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/12/26 17:55 |

EAST Search History

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| S21 | 486 | (175/56).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/12/26 17:55 |
| S22 | 526 | (175/296).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/12/26 17:55 |
| S23 | 1014 | (175/320).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/12/26 17:55 |
| S24 | 157 | (175/38).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/12/26 17:55 |
| S25 | 28 | (S20 S21 S22 S23 S24) and (@pd>"20050625") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2006/09/17 15:21 |